

THESES

PRESENTEES

A LA FACULTE DES SCIENCES D'ORSAY

UNIVERSITE DE PARIS

POUR OBTENIR

LE GRADE DE DOCTEUR ES-SCIENCES NATURELLES

PAR

Brigitte LEVITA

1^{re} THESE

Etude de l'homochromie chez Oedipoda coerulea L.
(Acridien, Orthoptère).

1969

PLANCHES



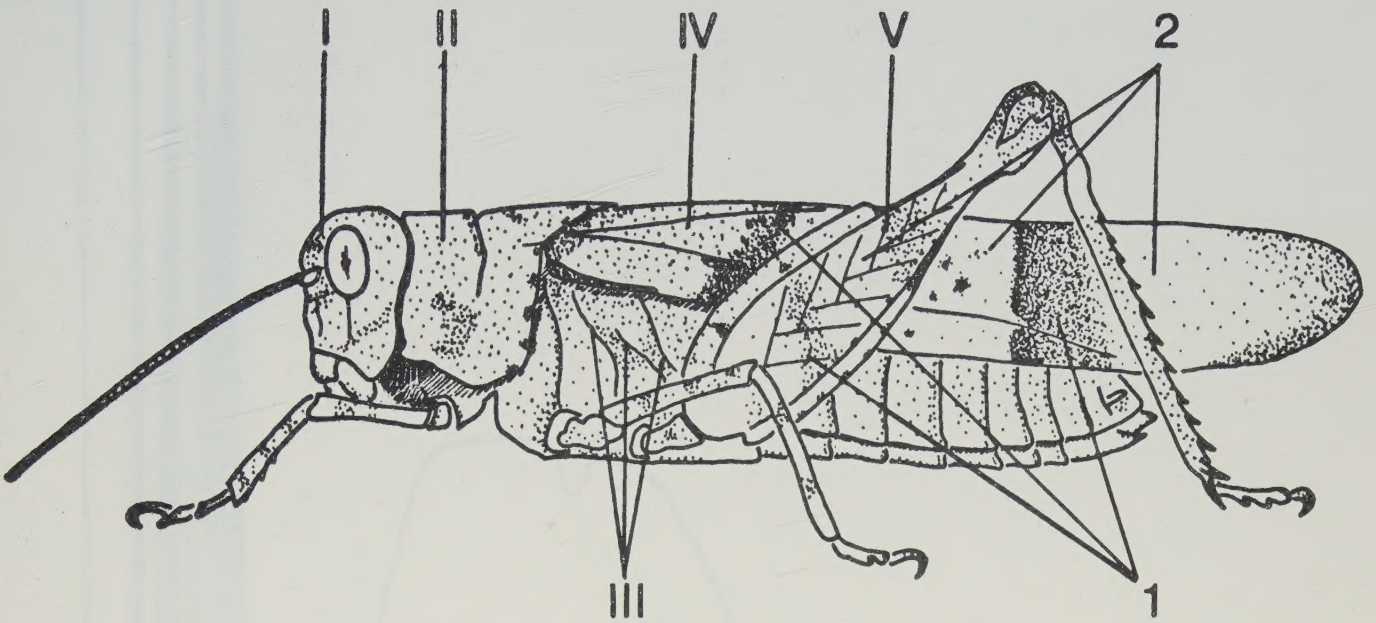


Figure .1 _ OEDIPODA COERULESCENS L .

I _ TETE

II _ PRNOTUM

III _ PLEURITES

IV _ ELYTRES

V _ FEMUR

1 _ Bandes sombres

2 _ Parties plus claires

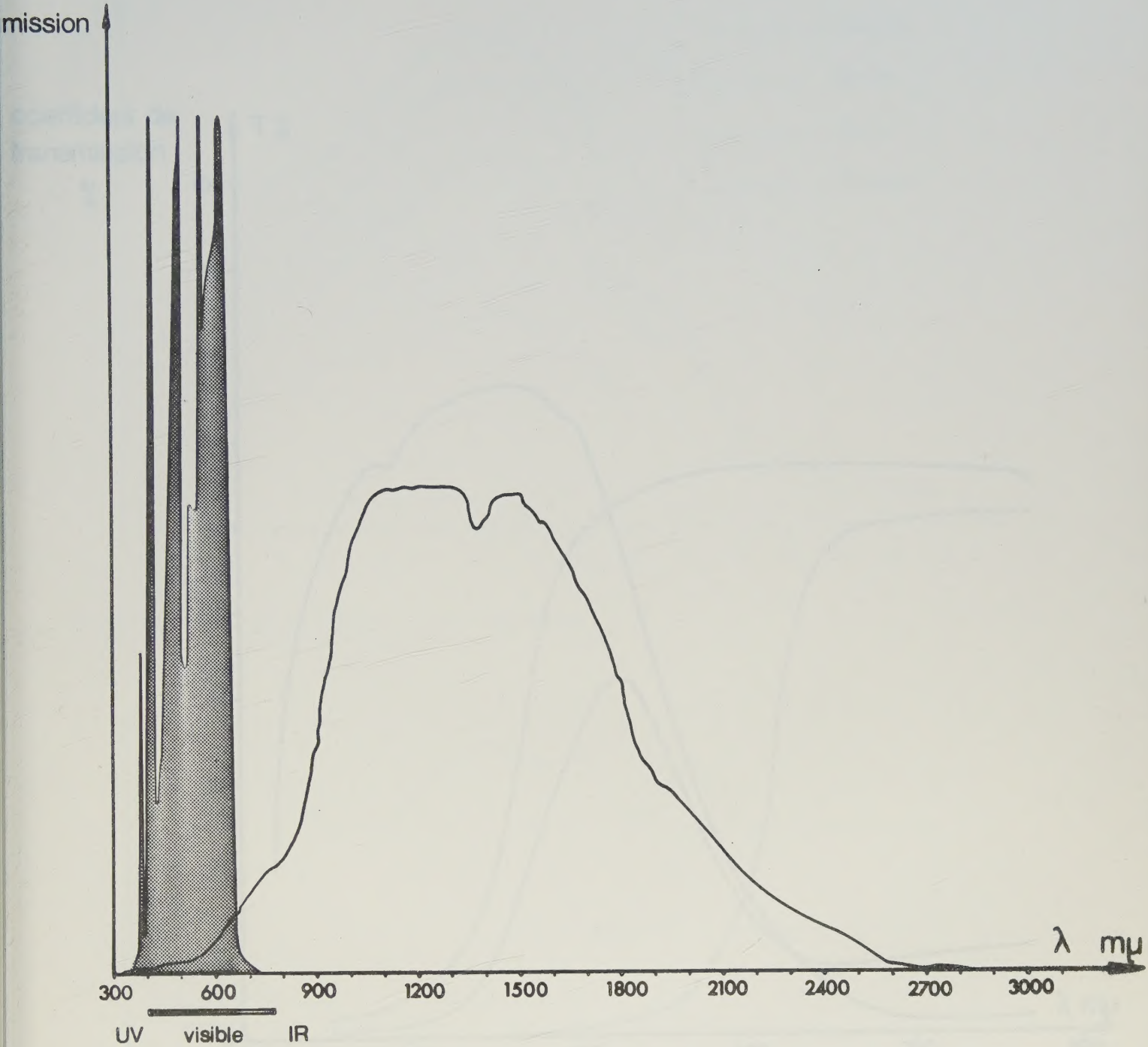
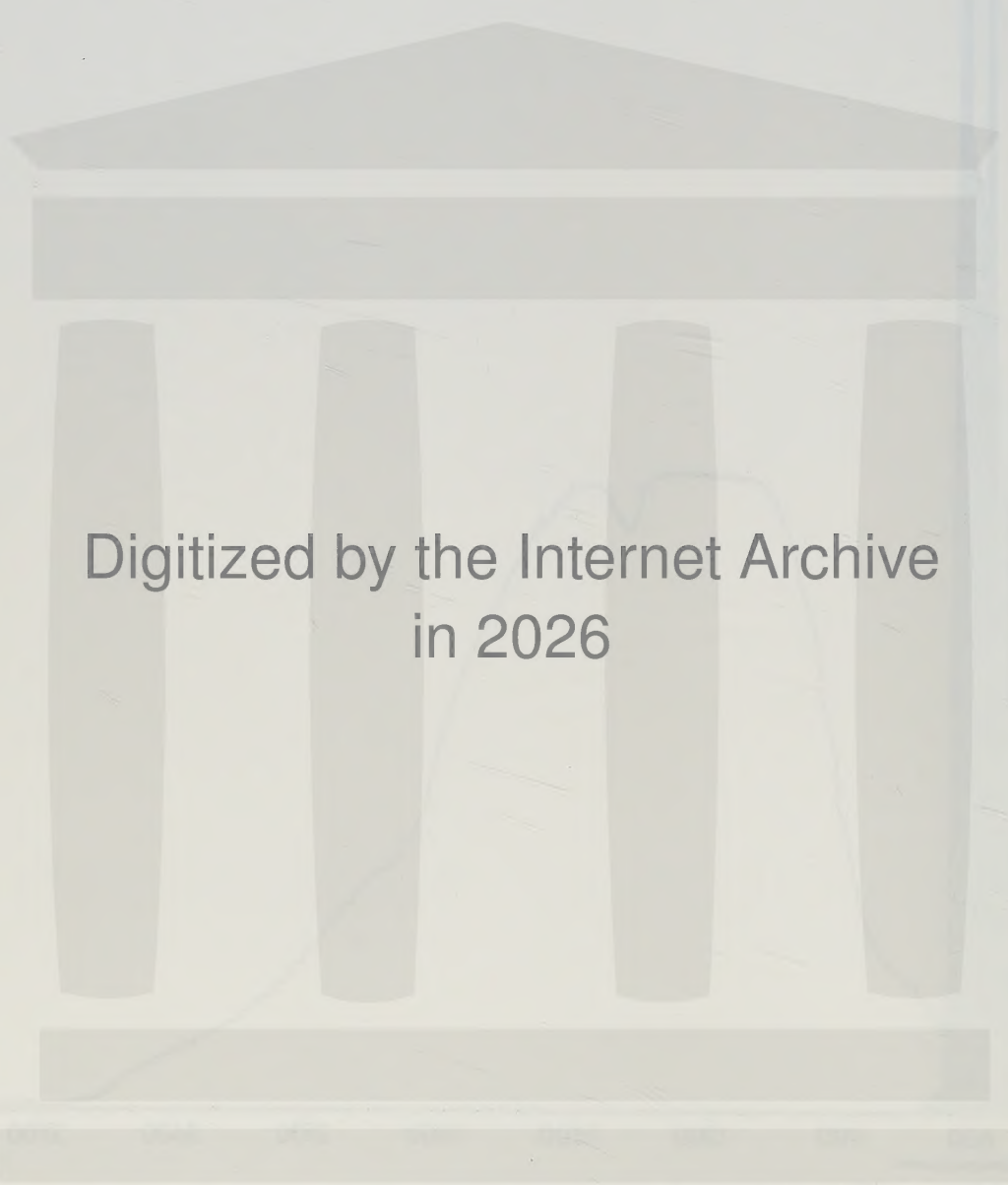


Figure.2 — Courbes d'émission spectrale

☐ Lampe à incandescence
75 W 2800°K

☒ Lampe fluorescente Daylight
65 W 4300°K



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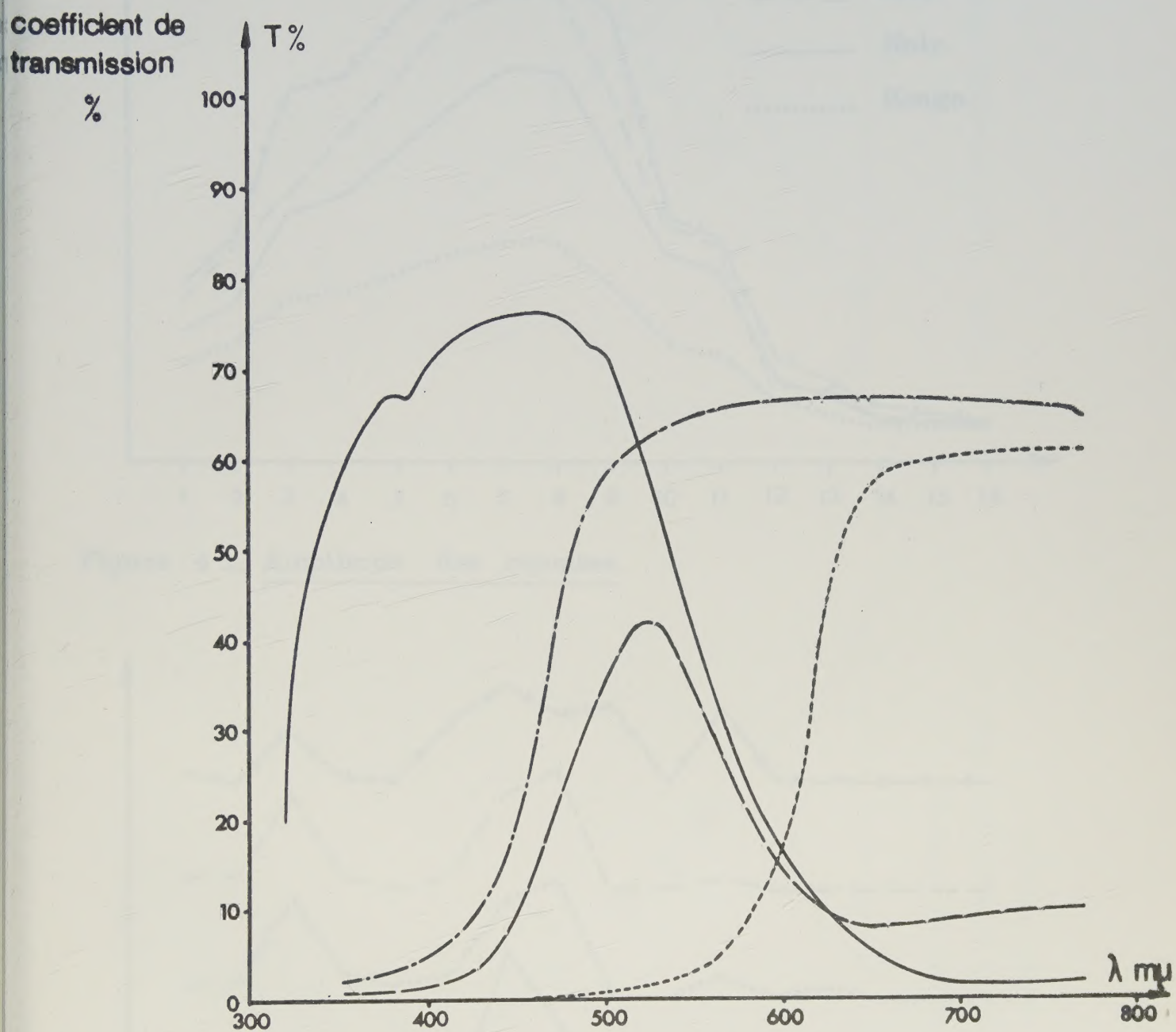


Figure. 3 — COURBE DE TRANSMISSION DES VERRES COLORES

- BLEU
- VERT
- .- JAUNE
- ROUGE

REPONSES ELECTRORETINOGRAPHIQUES D'OEDIPODA

(D'APRÈS MONTEL, 1968)

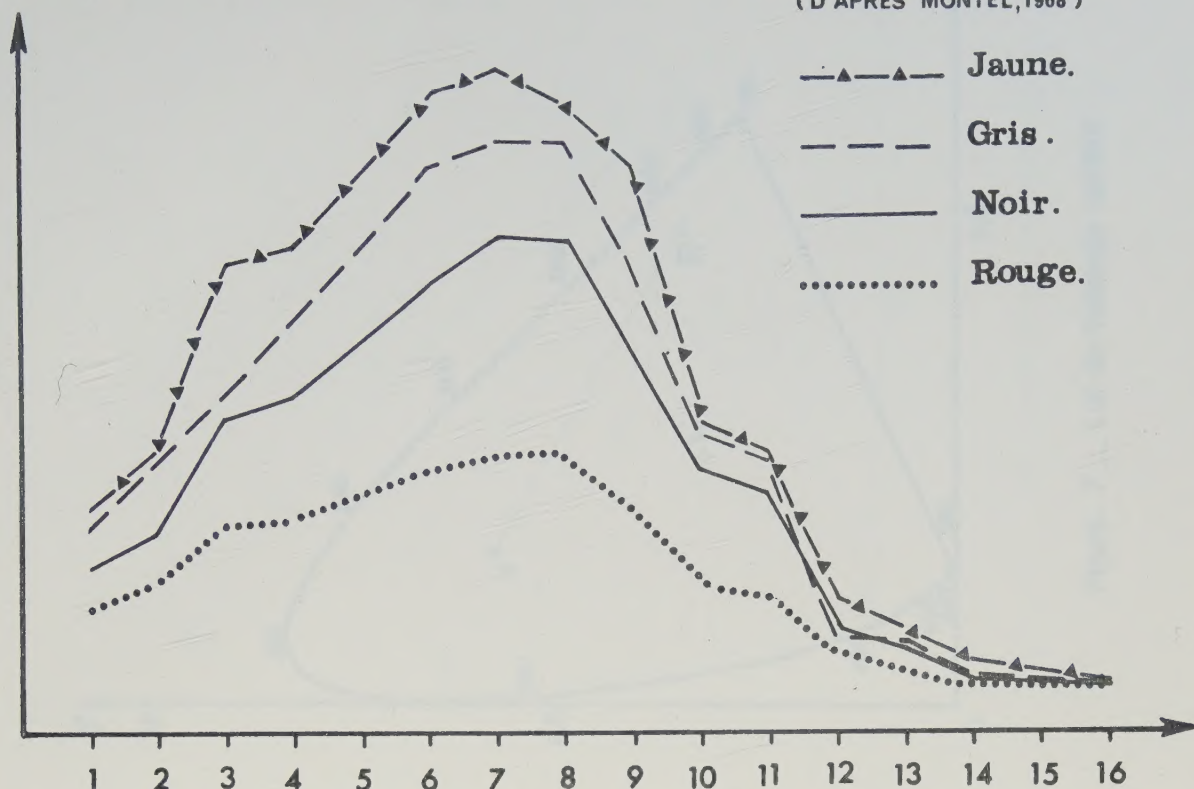


Figure . 4 — Amplitude des réponses.

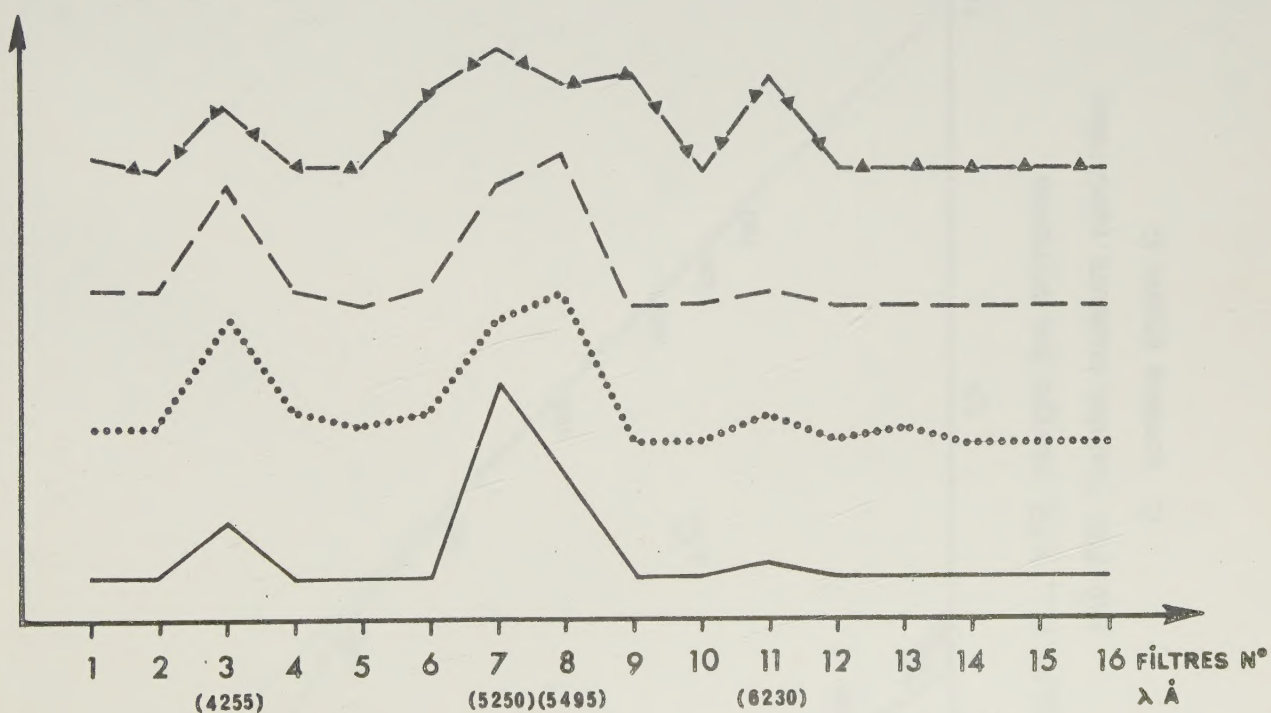


Figure . 5 — Histogramme: Comparaison de la sensibilité spectrale.

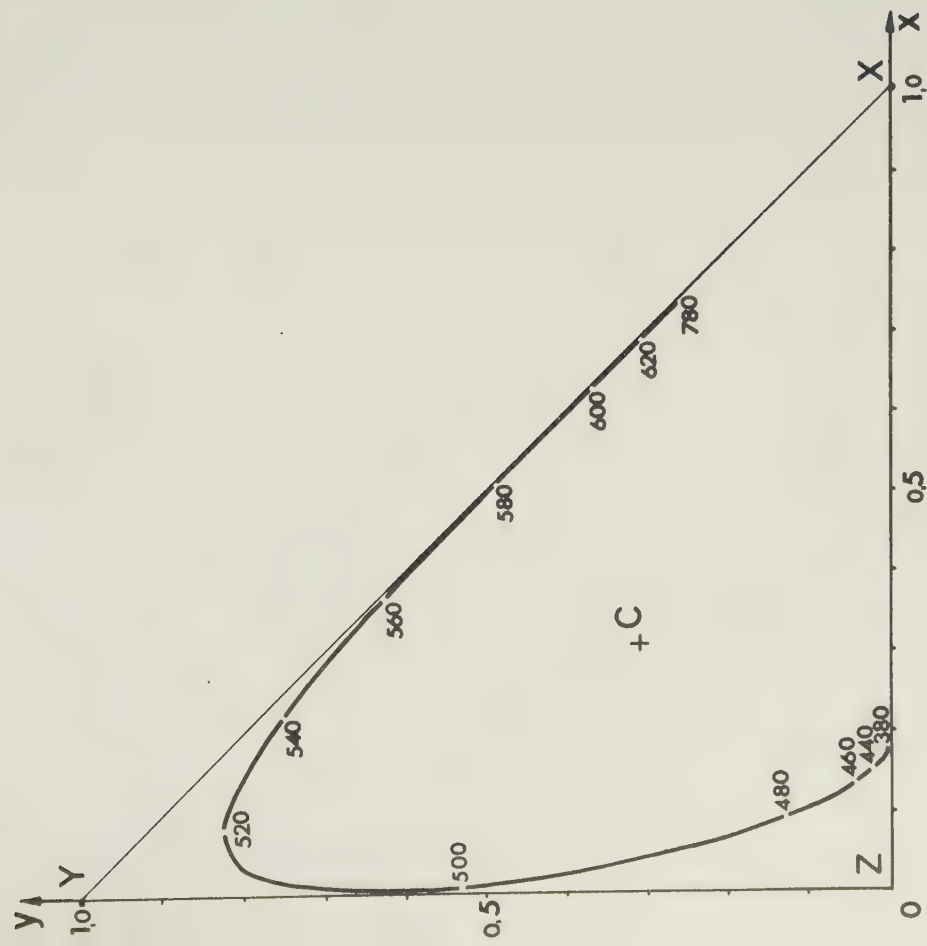


Figure . 6 — XYZ triangle des primaires
380.780 lieu des couleurs spectrales
C lumière étalon C

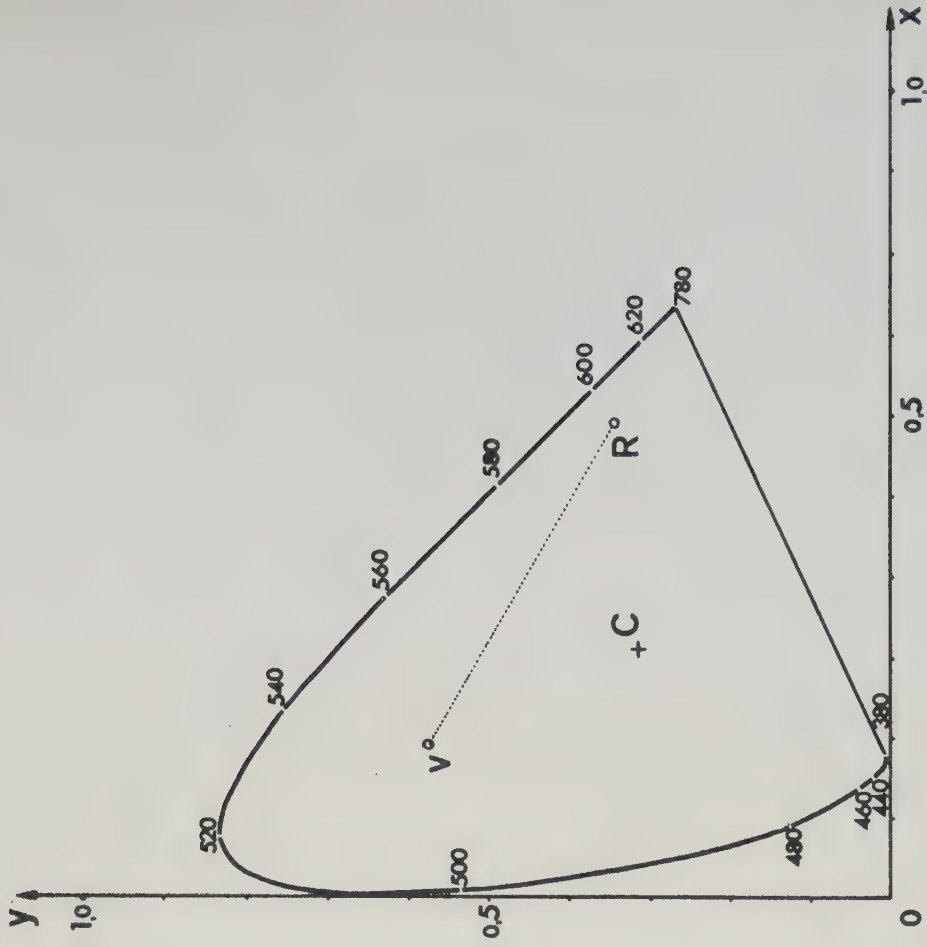


Figure . 7 — Loi du mélange additif

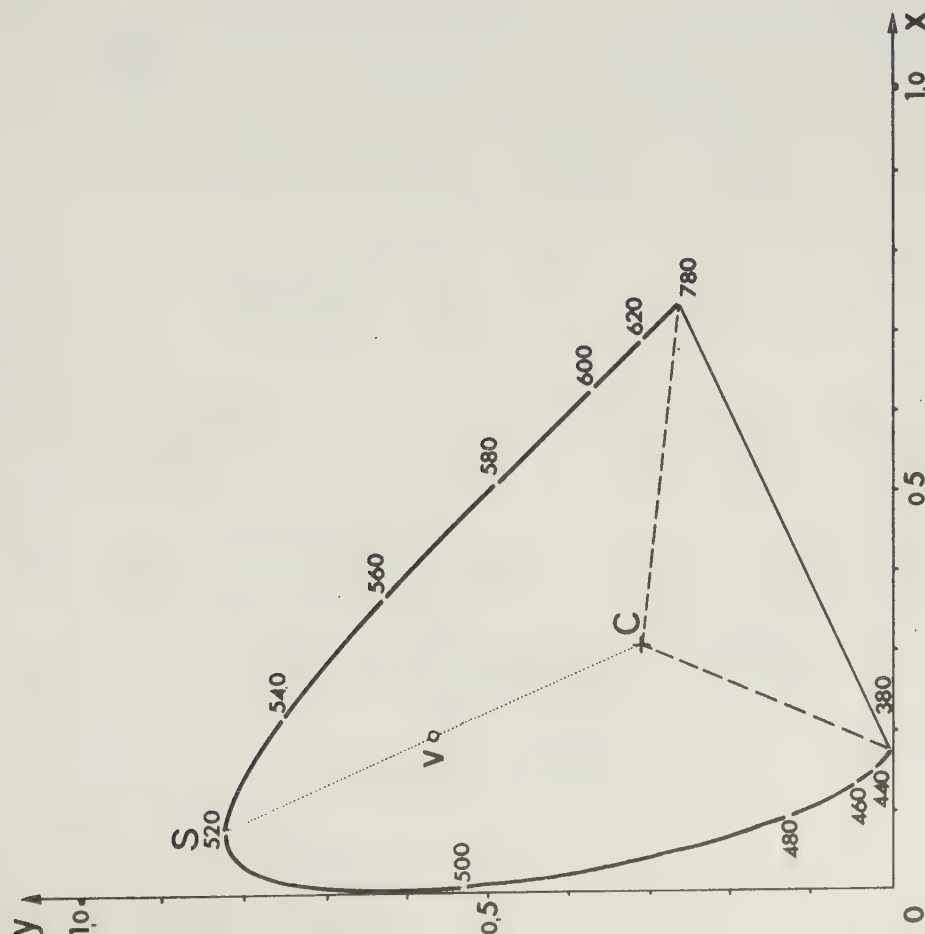


Figure . 8 — Longueur d'onde dominante

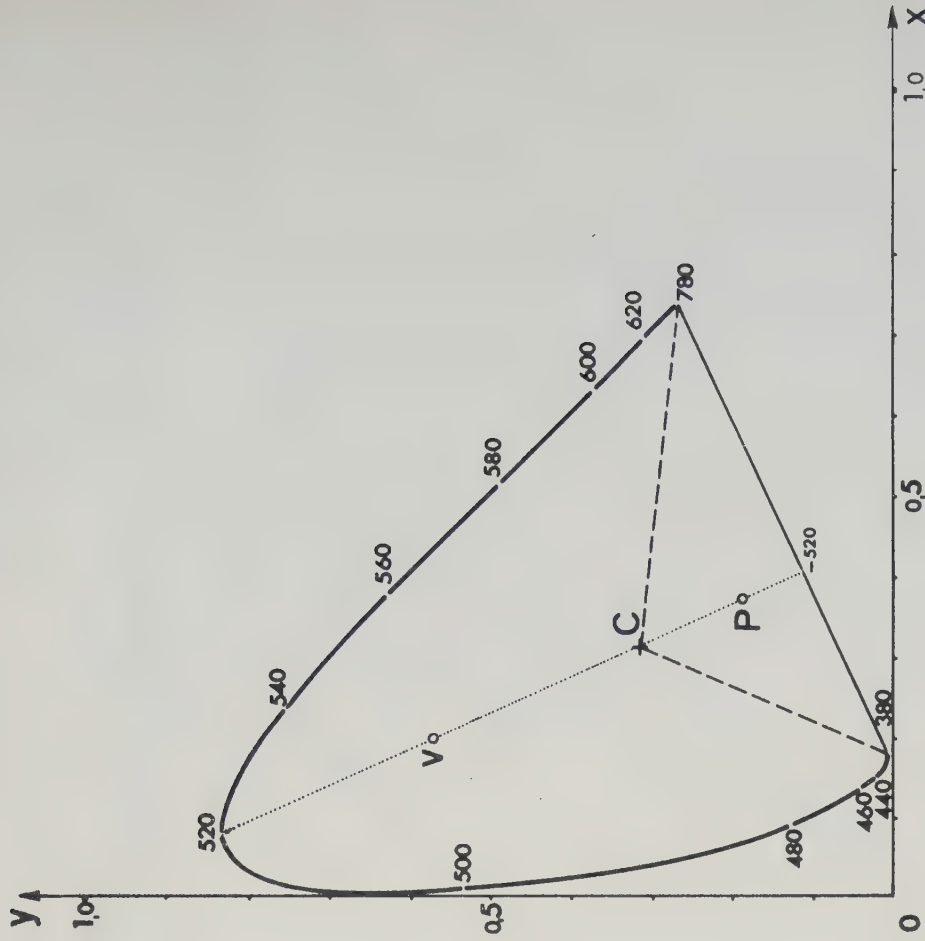


Figure . 9 — Longueur d'onde complémentaire
Cas des pourpres

Diagramme trichromatique CIE

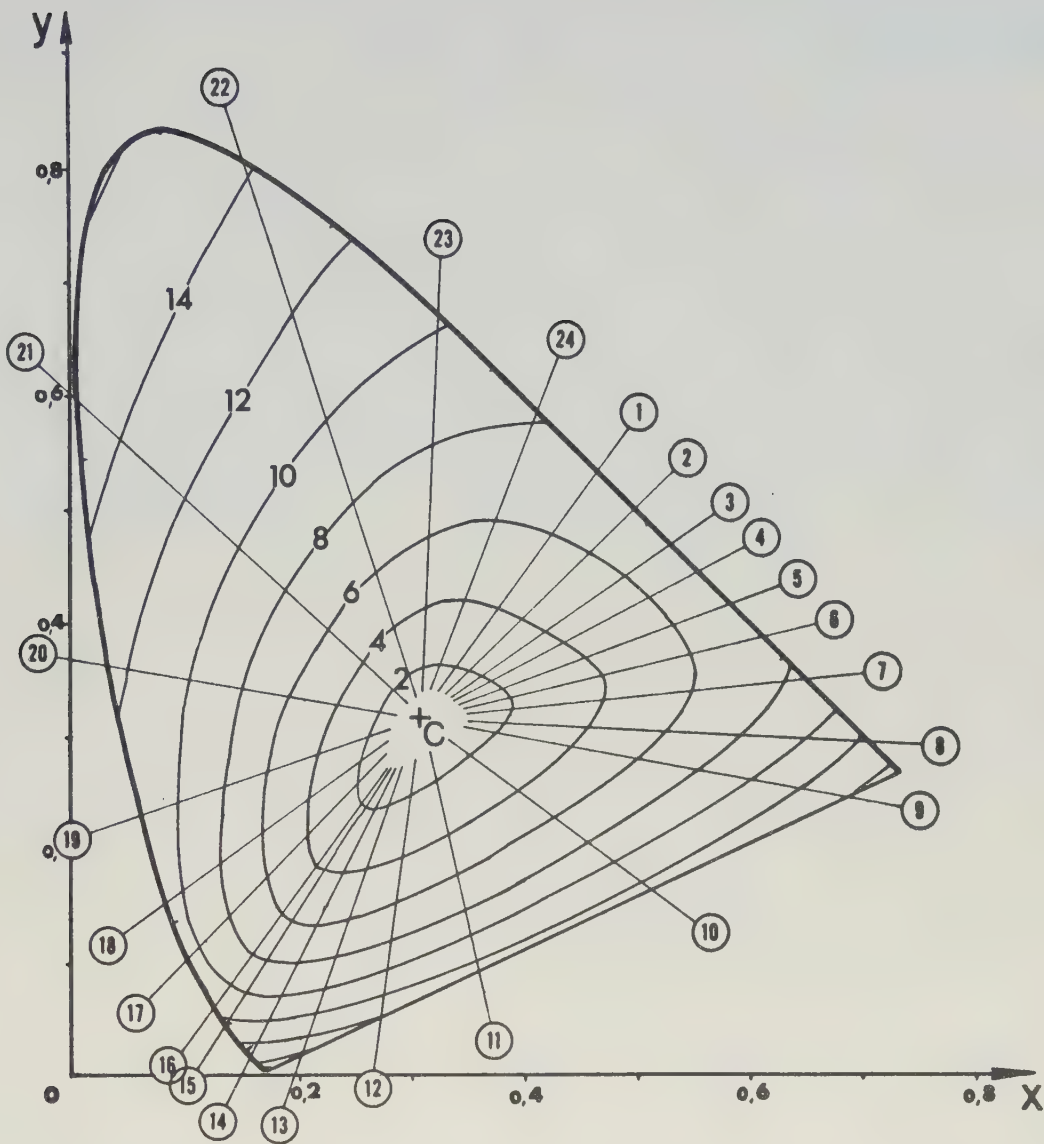


Figure.10_Diagramme chromatique C.I.E.

C point achromatique pour la lumiere normale C (norme DIN 5033)

① ... ②④ teintes (Farbtongleiche Wellenlänge)

(norme DIN 6164)

1 ... 16 saturation (Sättigung)

SPECTROPHOTOMETRE PMQ II AVEC DISPOSITIF ADDITIONNEL
DE REFLEXION DIFFUSE

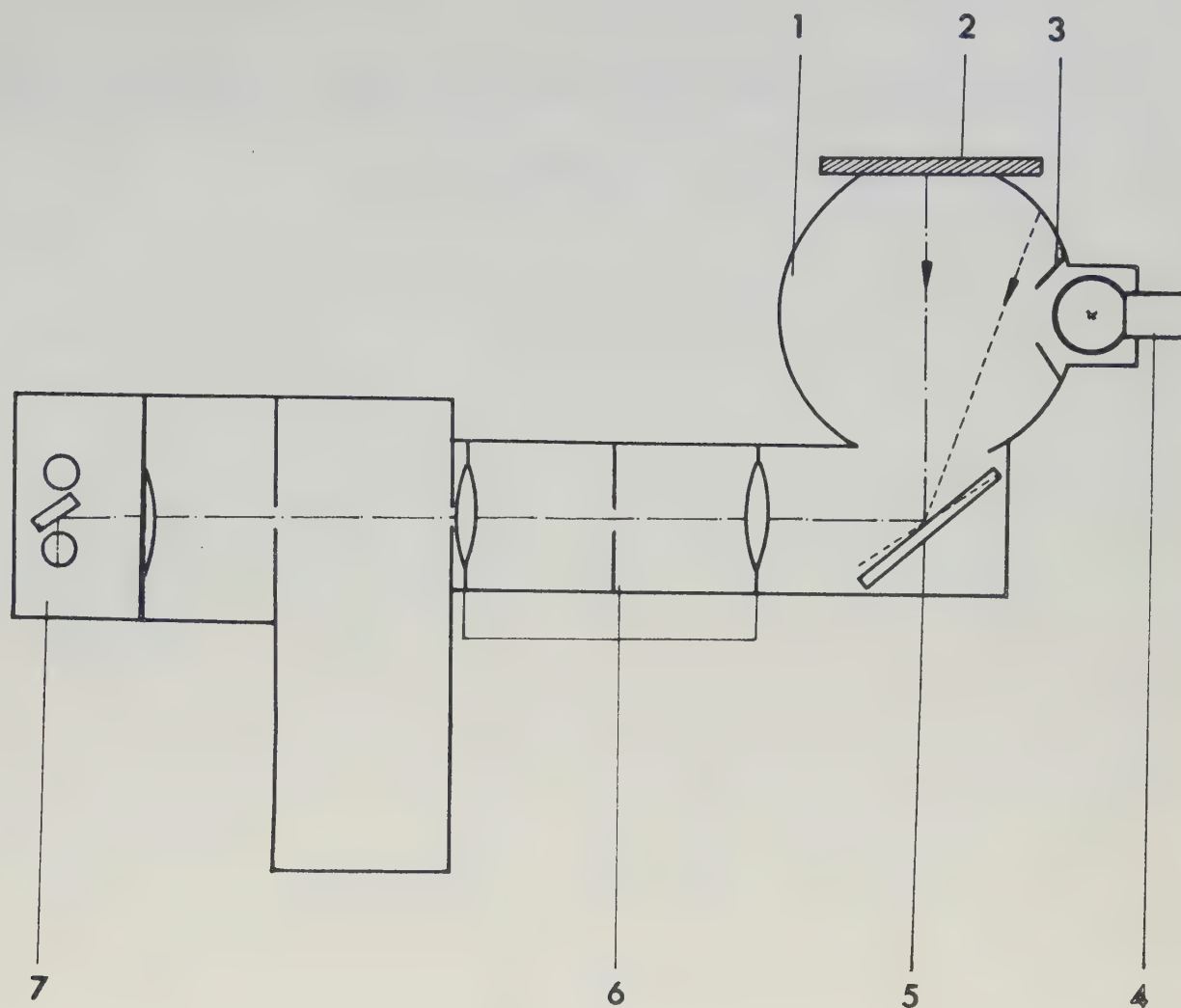


Figure . 11 —

- 1 . SPHERE
- 2 . ECHANTILLON
- 3 . DIAPHRAGME
- 4 . SOURCE LUMINEUSE
- 5 . MIROIR BASCULANT
- 6 . OPTIQUE INTERMEDIAIRE
- 7 . RECEPTEUR PHOTOELECTRIQUE

SPECTROPHOTOMETRE PMQ II AVEC MONTURE A SPHERE ET
OBJECTIF ADAPTABLE.

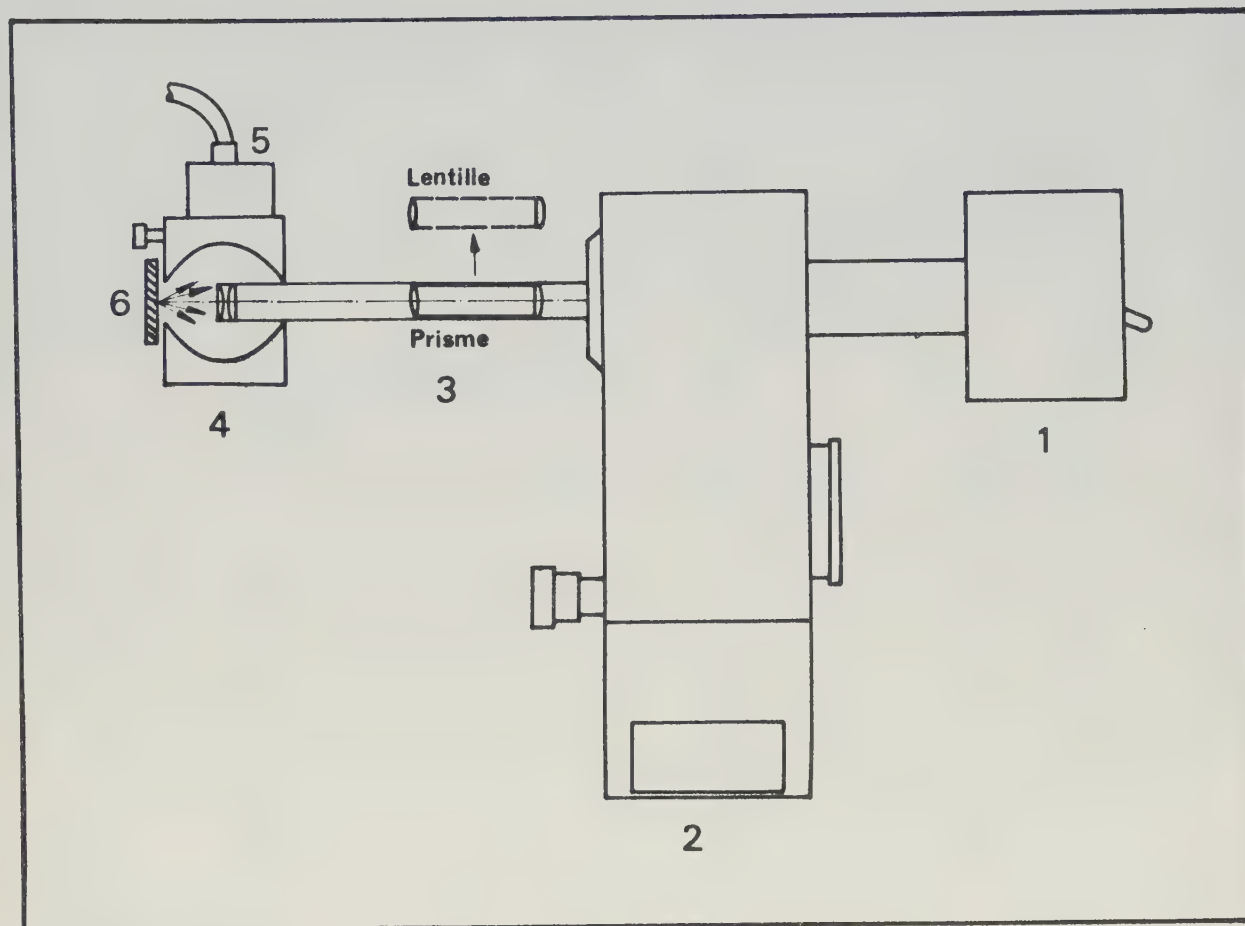


Figure .12 — 1 - SOURCE LUMINEUSE

2 - MONOCHROMATEUR

3 - OBJECTIF

4 - MONTURE A SPHERE

5 - RECEPTEUR PHOTOELECTRIQUE

6 - ECHANTILLON

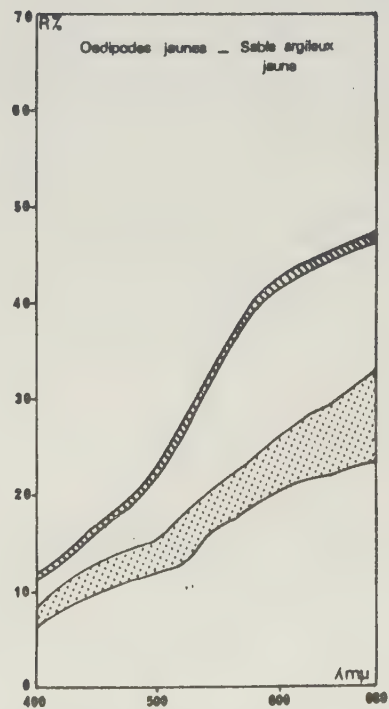
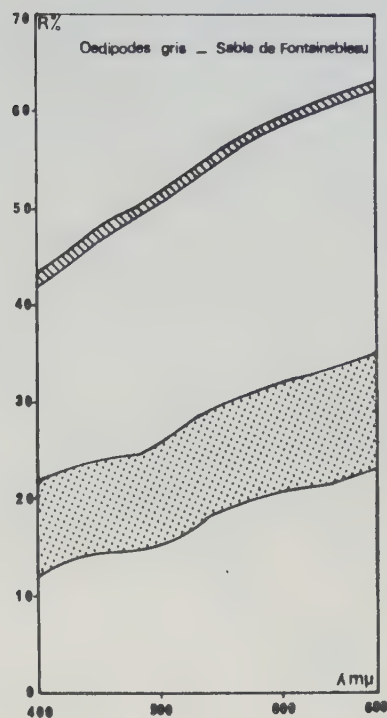


Figure 13 _ VARIATIONS DU FACTEUR DE REFLEXION DIFFUSE EN
FONCTION DE LA LONGUEUR D'ONDE .

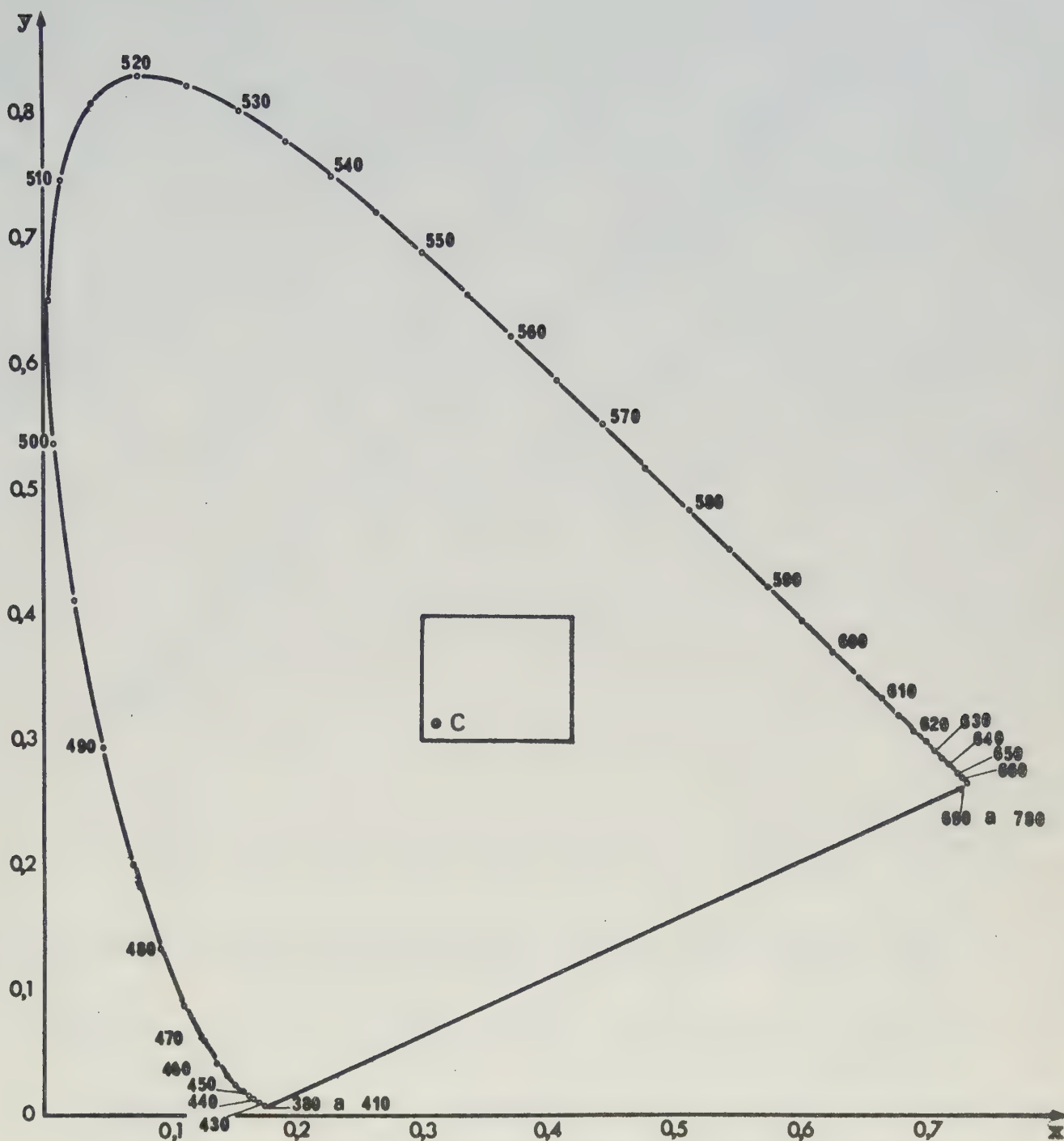


Figure .14 — DIAGRAMME CHROMATIQUE CIE

(Le rectangle est agrandi dans la figure 15)

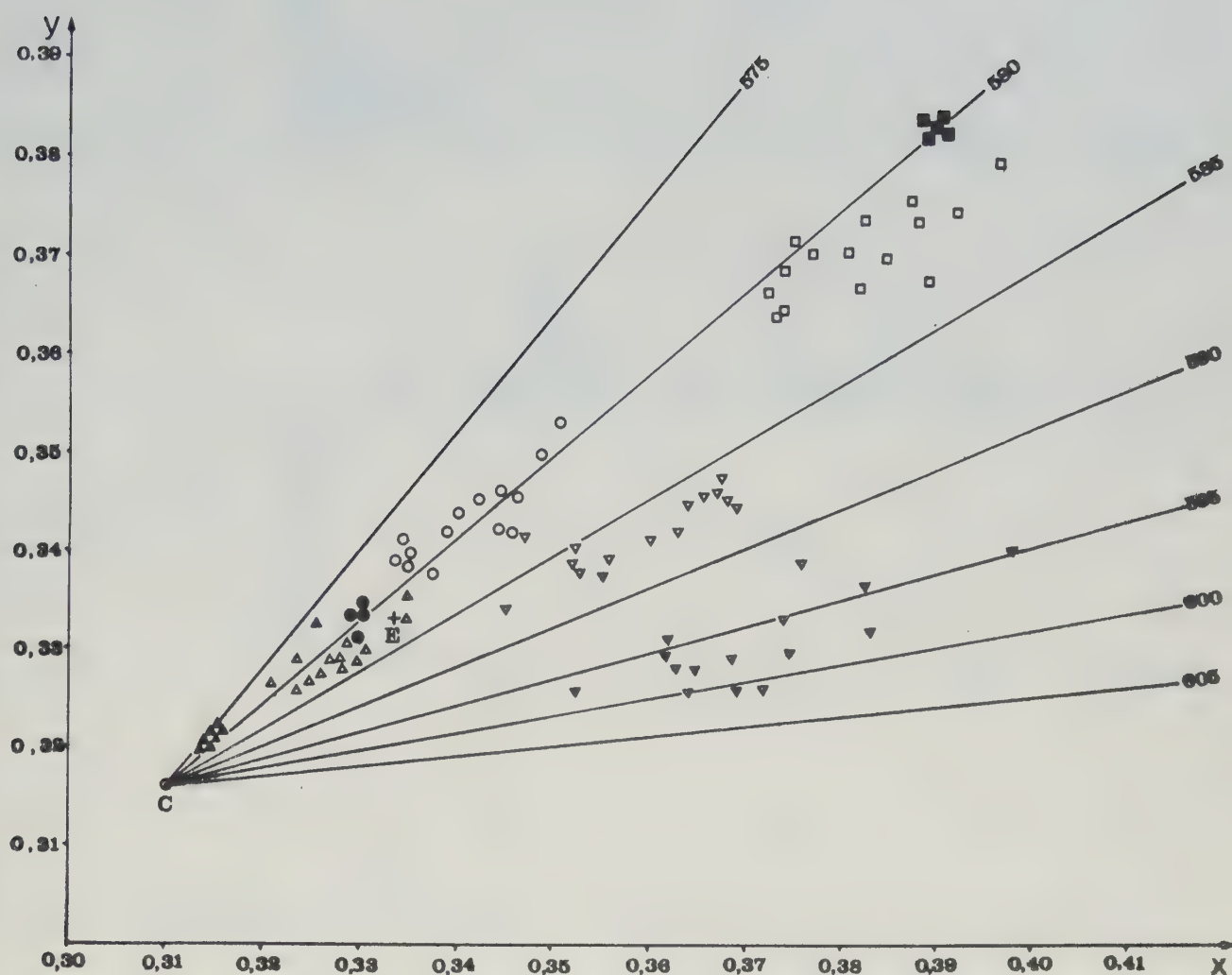


Figure .15 _ REPARTITION DES OEDIPODES ELEVES SUR SUBSTRATS

NATURELS

OEDIPODE

- ▲ _ Noir
- _ Gris
- ▼ _ Rouge
- _ Jaune

SUBSTRAT

- ▲ _ Ardoise
- _ Sable de Fontainebleau
- ▼ _ Oxyde de fer
- _ Sable argileux

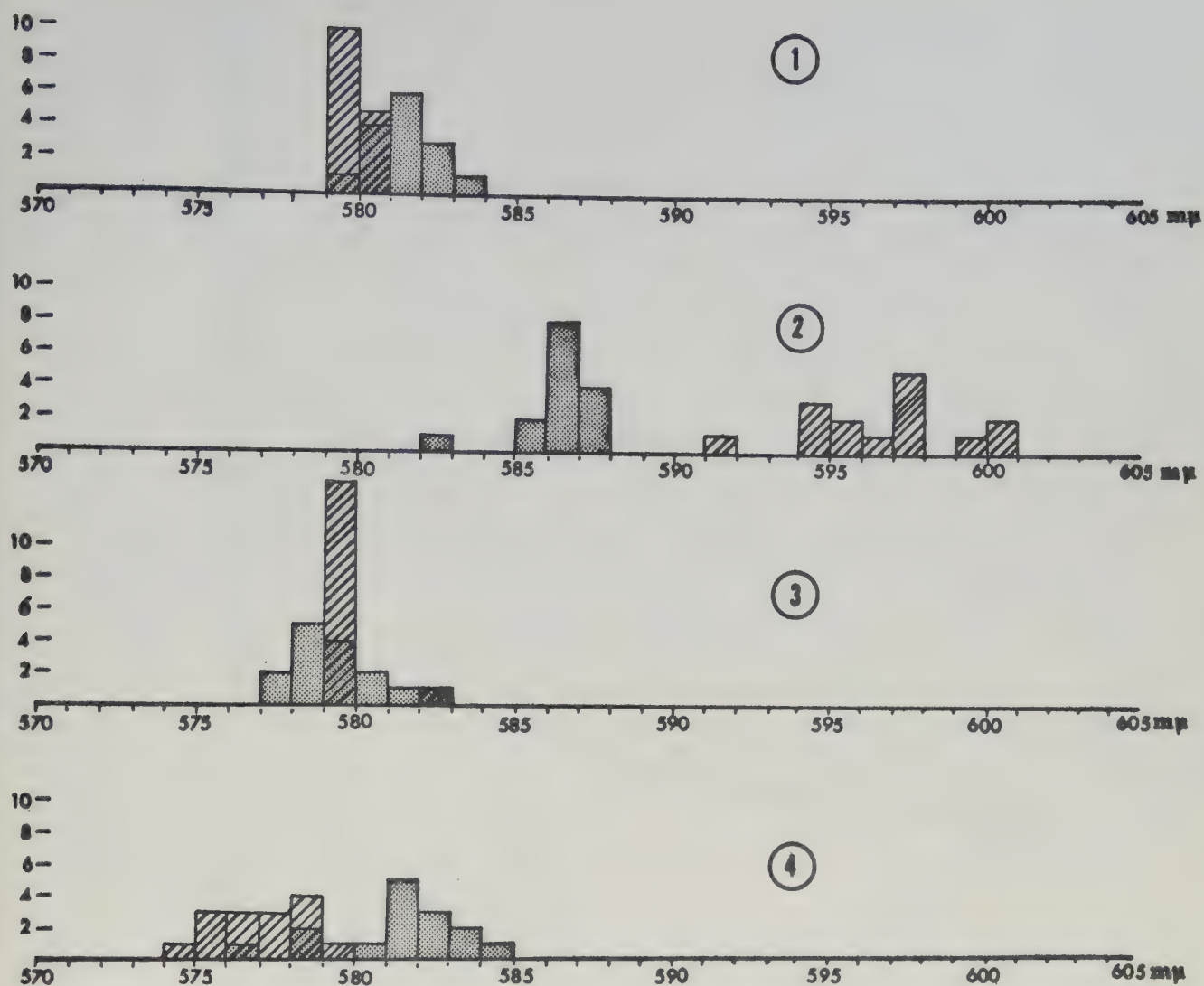


Figure 16 _Histogrammes — Distribution comparée des couleurs des Oedipodes et des substrats naturels.

OEDIPODES
 SUBSTRATS

- | | | | |
|-----|-------|---|------------------------|
| ① — | Noirs | — | Ardoise |
| ② — | Gris | — | Sable de Fontainebleau |
| ③ — | Rouge | — | Oxyde de fer |
| ④ — | Jaune | — | Sable argileux jaune |

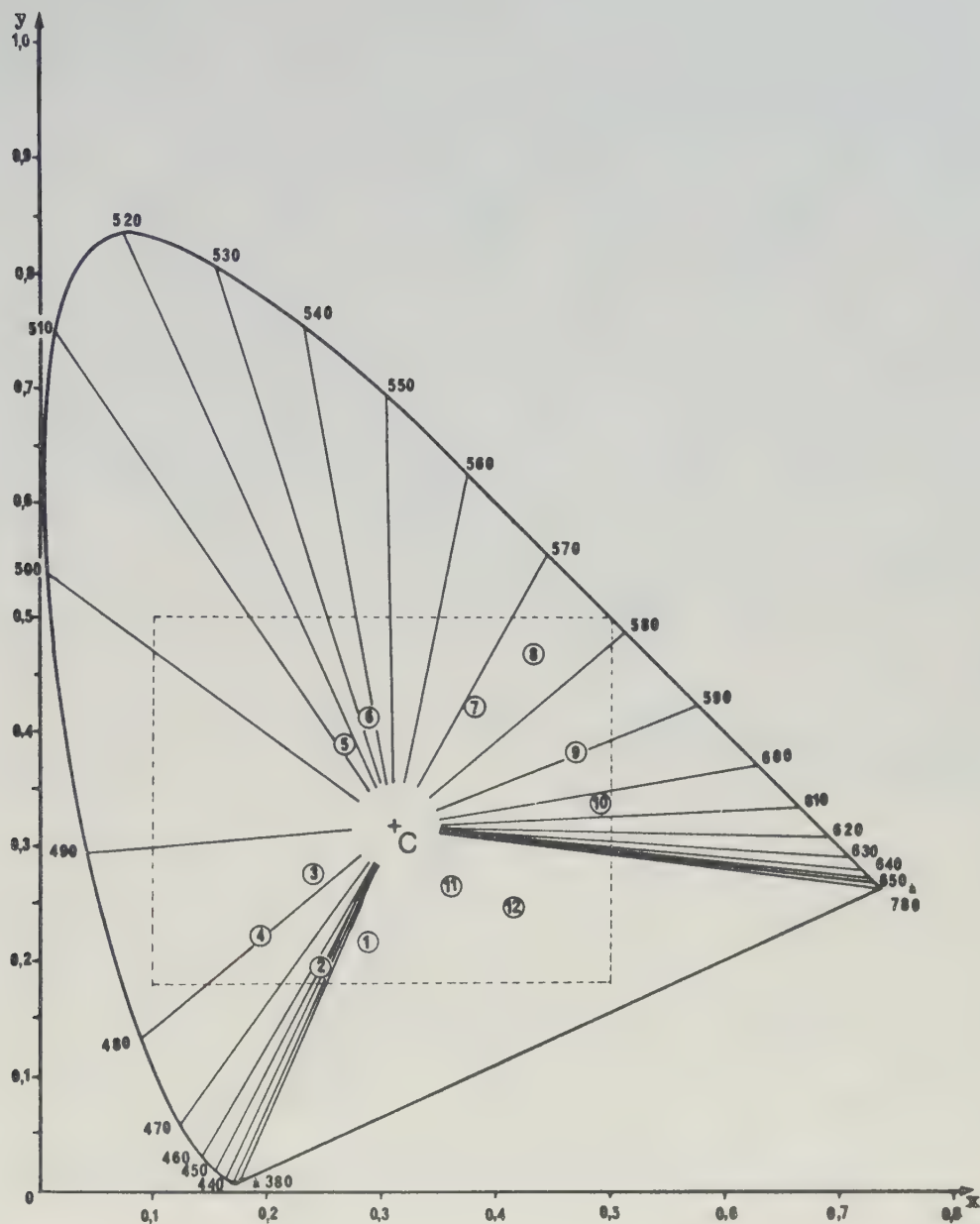


Figure . 17 — REPARTITION DES PAPIERS COLORES DANS
LE DIAGRAMME C.I.E

① Violet 003	⑤ Grün 909	⑧ Orange 930
② Violet 009	⑥ Grün 906	⑩ Rot 990
③ Tonfarbe 001	⑦ Tonfarbe 100	⑪ Tonfarbe 010
④ Blau 009	⑨ Gelb 900	⑫ Rot 090

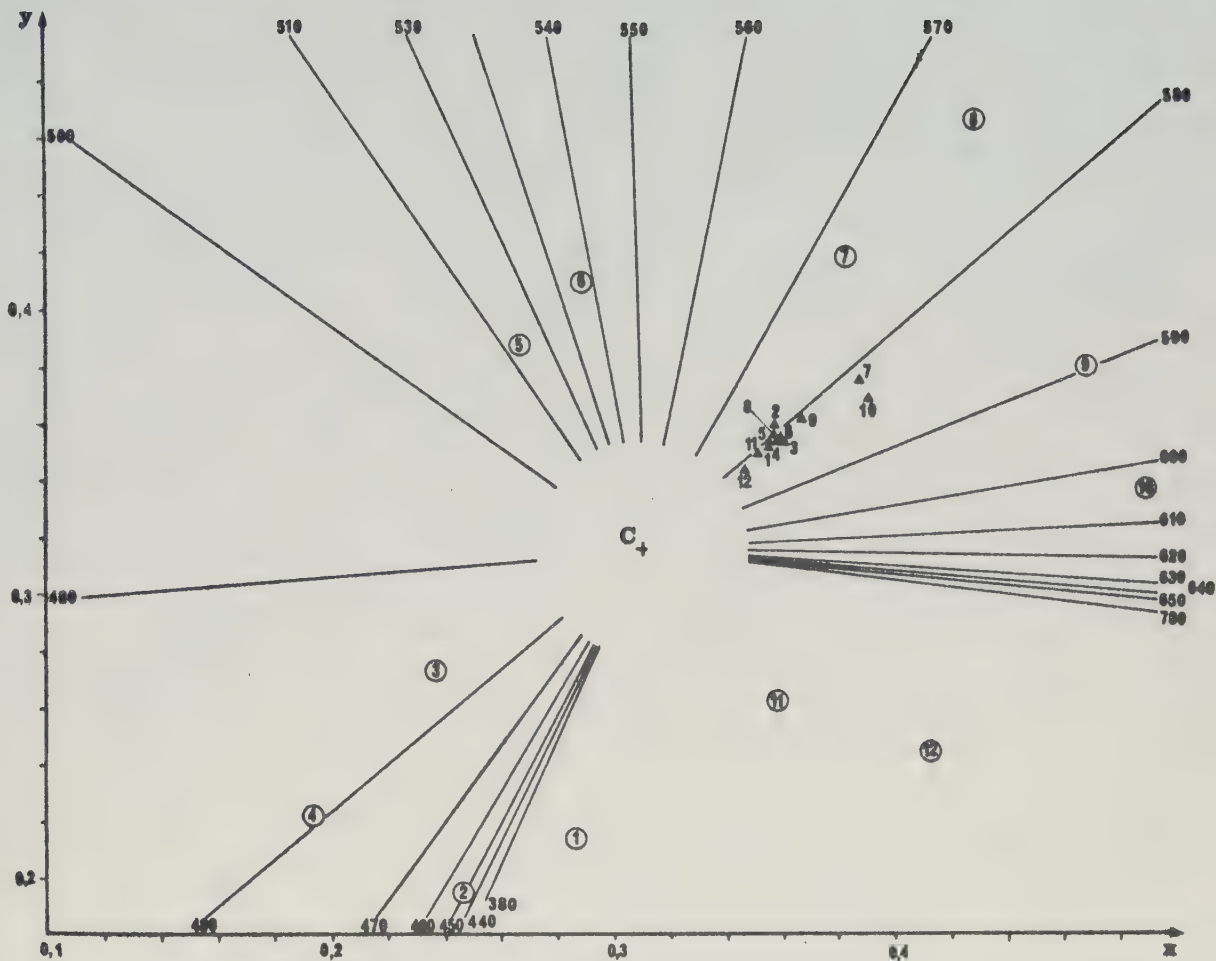


Figure . 18 __ REPARTITION DES PAPIERS COLORES ET DES OEDIPODES
DANS LE DIAGRAMME CIE

① _ ▲ 1

② _ ▲ 2

③ _ ▲ 3

④ _ ▲ 4

⑤ _ ▲ 5

⑥ _ ▲ 6

⑦ _ ▲ 7

⑧ _ ▲ 8

⑨ _ ▲ 9

⑩ _ ▲ 10

⑪ _ ▲ 11

⑫ _ ▲ 12

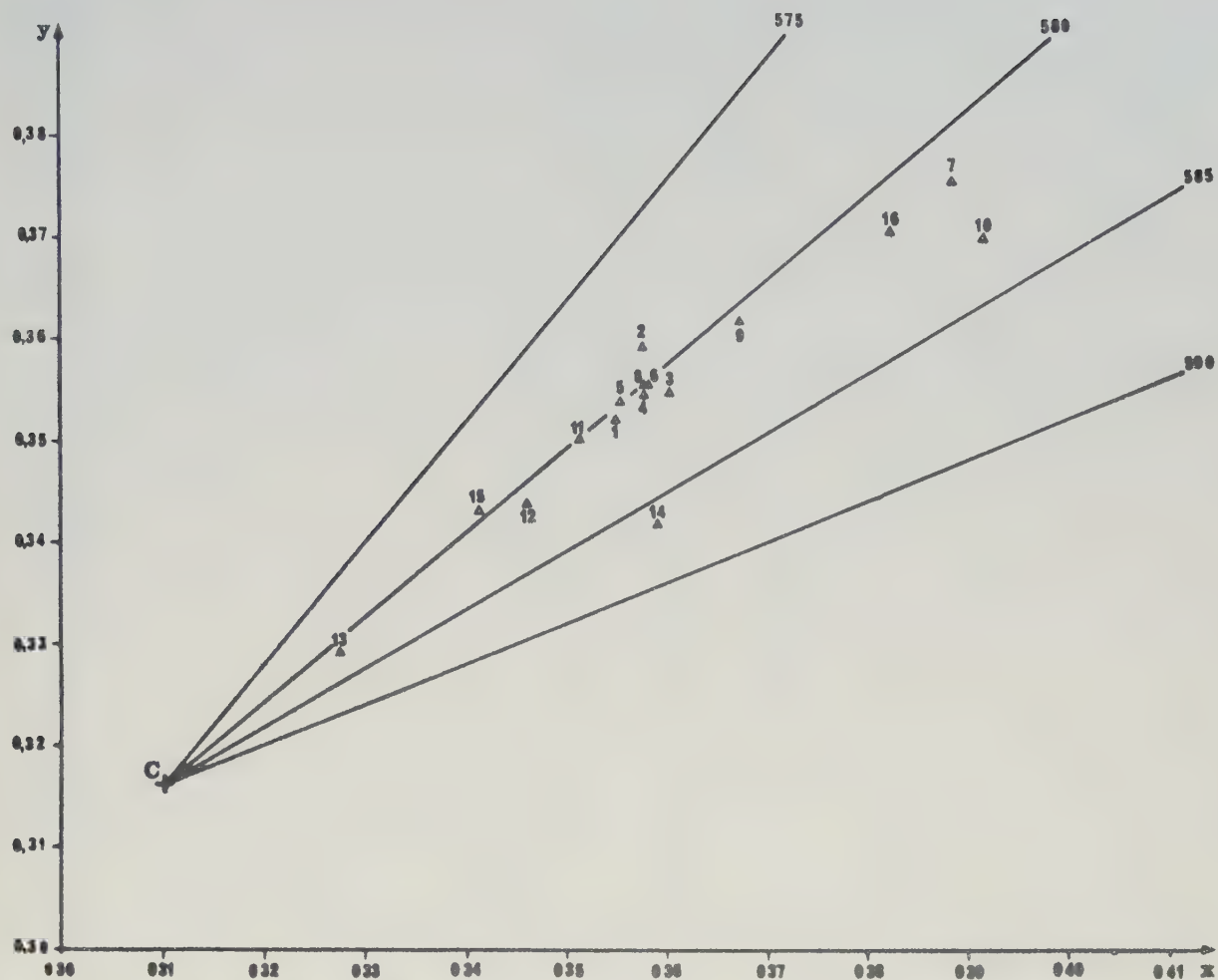


Figure .19 __ REPARTITION DES OEDIPODES SUR PAPIER COLORES ET SUR SOLS NATURELS DANS LE DIAGRAMME CIE.

- | | | |
|--------------------|----------------------|-------------------|
| ▲ 1 _ Violet . 003 | ▲ 7 _ Tonfarbe . 100 | ▲ 13 _ Ardoise |
| 2 _ Violet . 006 | 8 _ Gelb . 000 | 14 _ Oxyde de fer |
| 3 _ Tonfarbe . 001 | 9 _ Orange . 030 | 15 _ Sable blanc |
| 4 _ Bleu . 000 | 10 _ Rot . 000 | 16 _ Sable jaune |
| 5 _ Grün . 000 | 11 _ Tonfarbe . 010 | |
| 6 _ Grün . 000 | 12 _ Rot . 000 | |

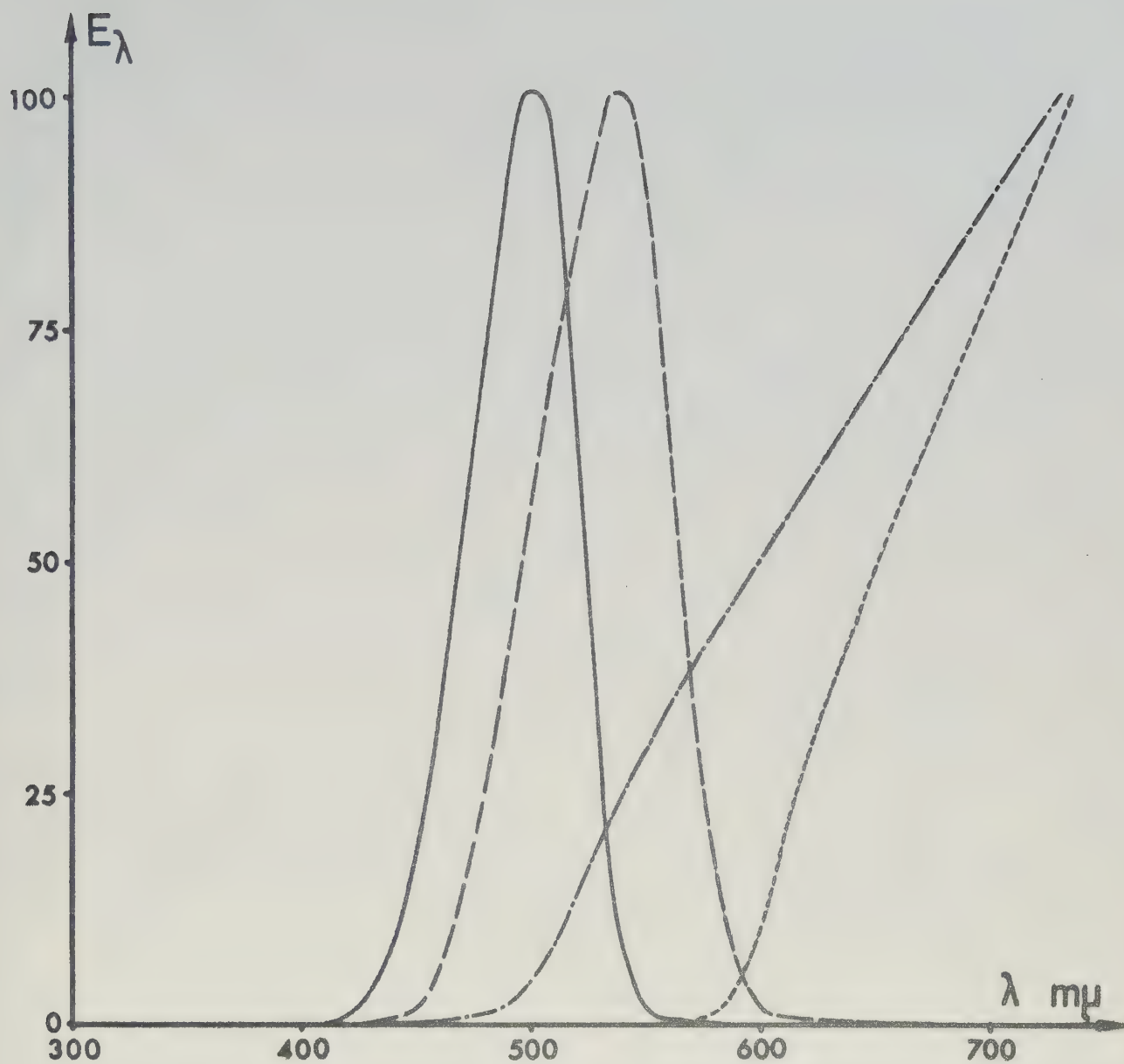


Figure . 20 _ Courbes de transmission des lampes colorées

-
- BLEU
 - VERT
 - .- JAUNE
 - ROUGE

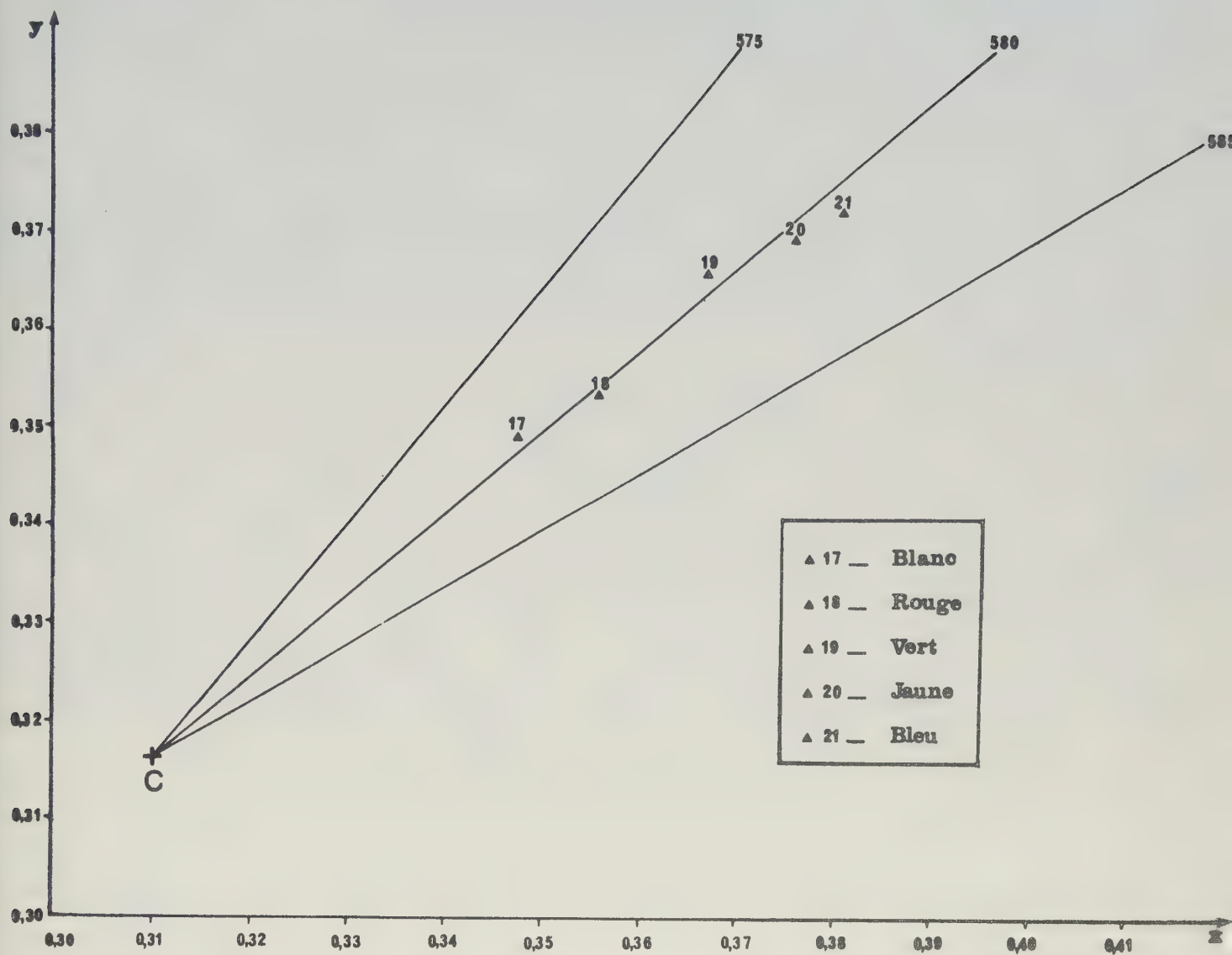
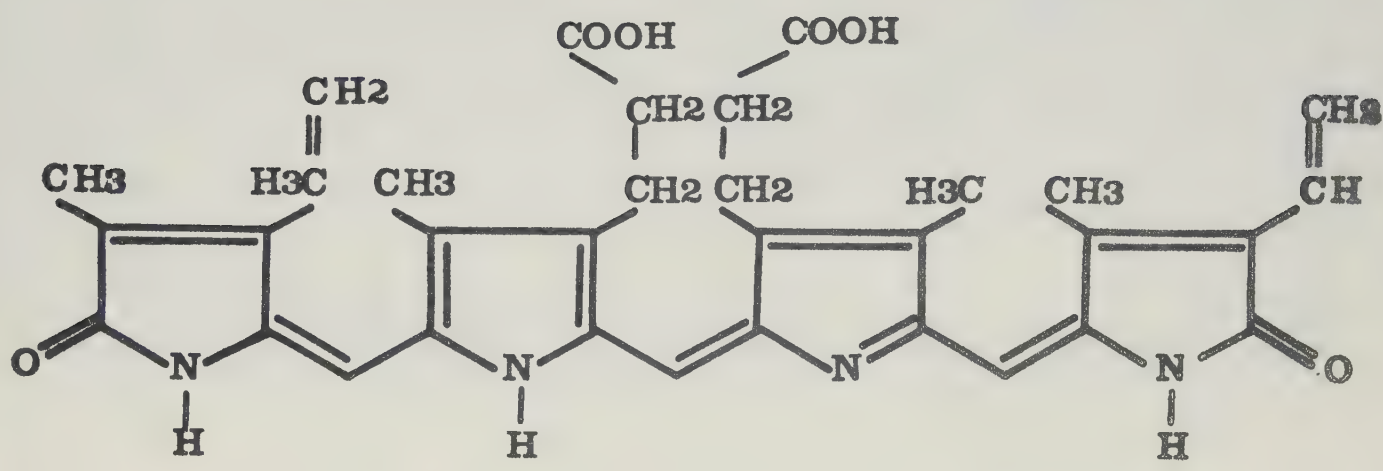


Figure . 21 __ REPARTITION DES OEDIPODES ELEVES SOUS DIFFERENTES
LUMIERES COLOREES DANS LE DIAGRAMME C.I.E

Figure . 22 — BILIVERDINE IX α



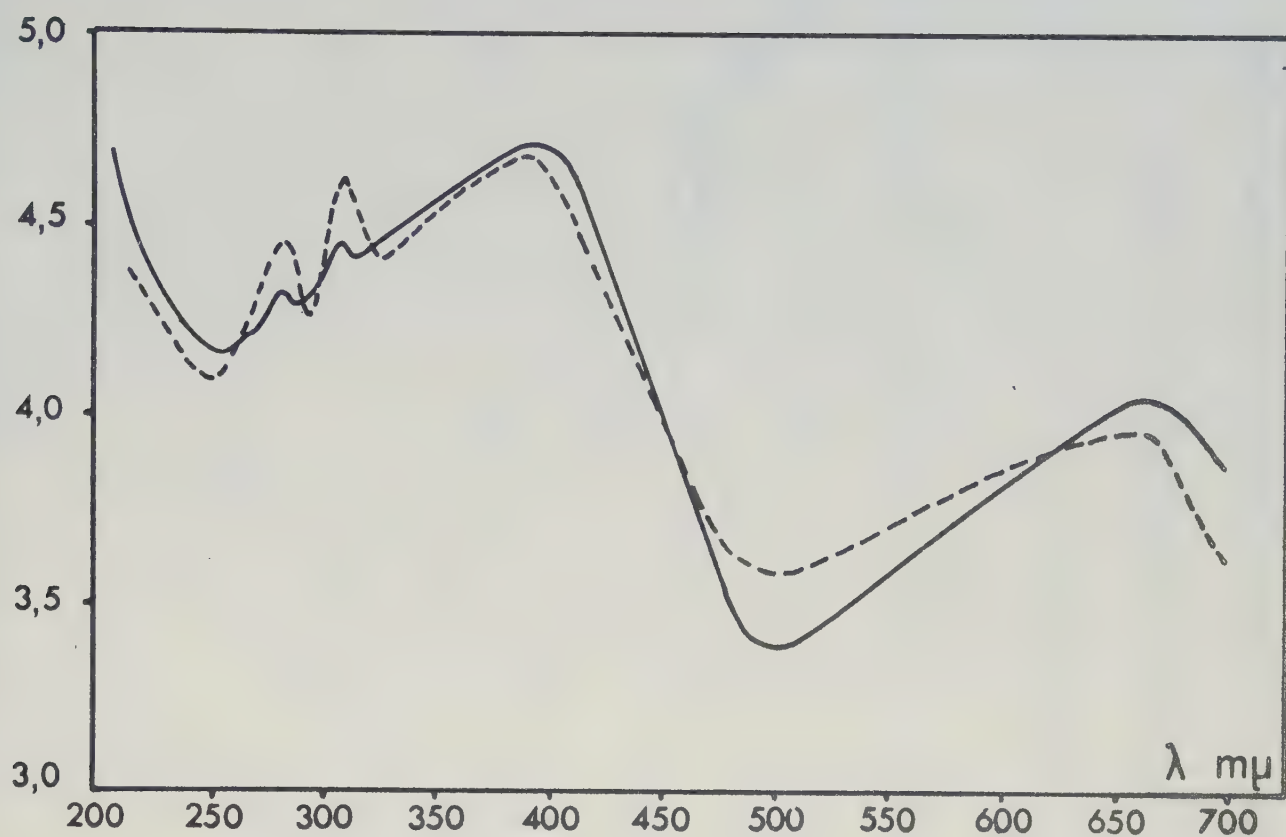


Figure . 23 _ Spectres d'absorption de l'esther méthylque de la biliverdine

— préparée par TIXIER
 ----- isolée de l'hémolymph de *Oedipoda*

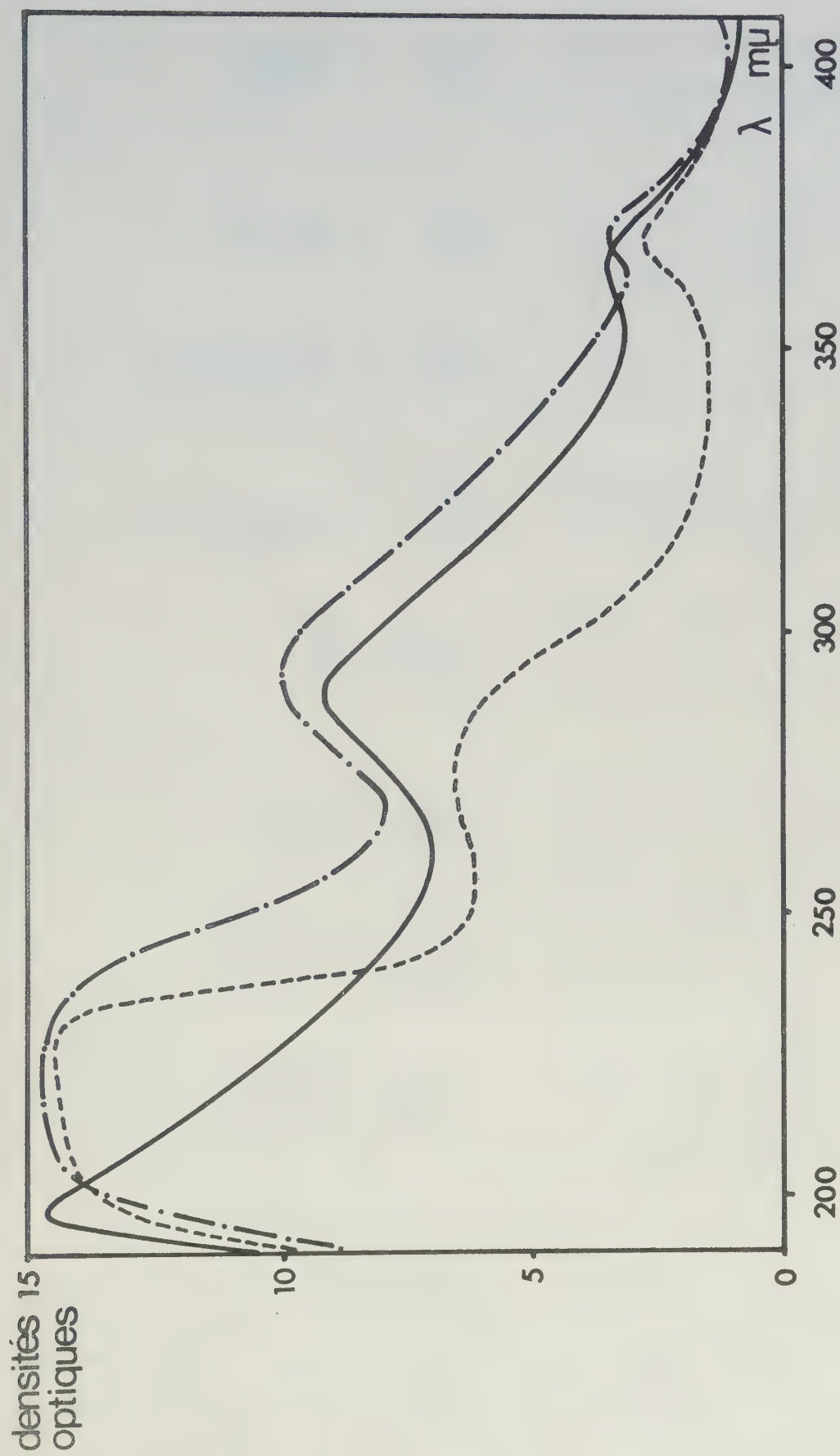


Figure . 24 — SPECTRES D'ABSORPTION

- du pigment brun extrait au butanol (n°I)
- .-.-.- du pigment brun extrait après acidification (n°II)
- du produit brut

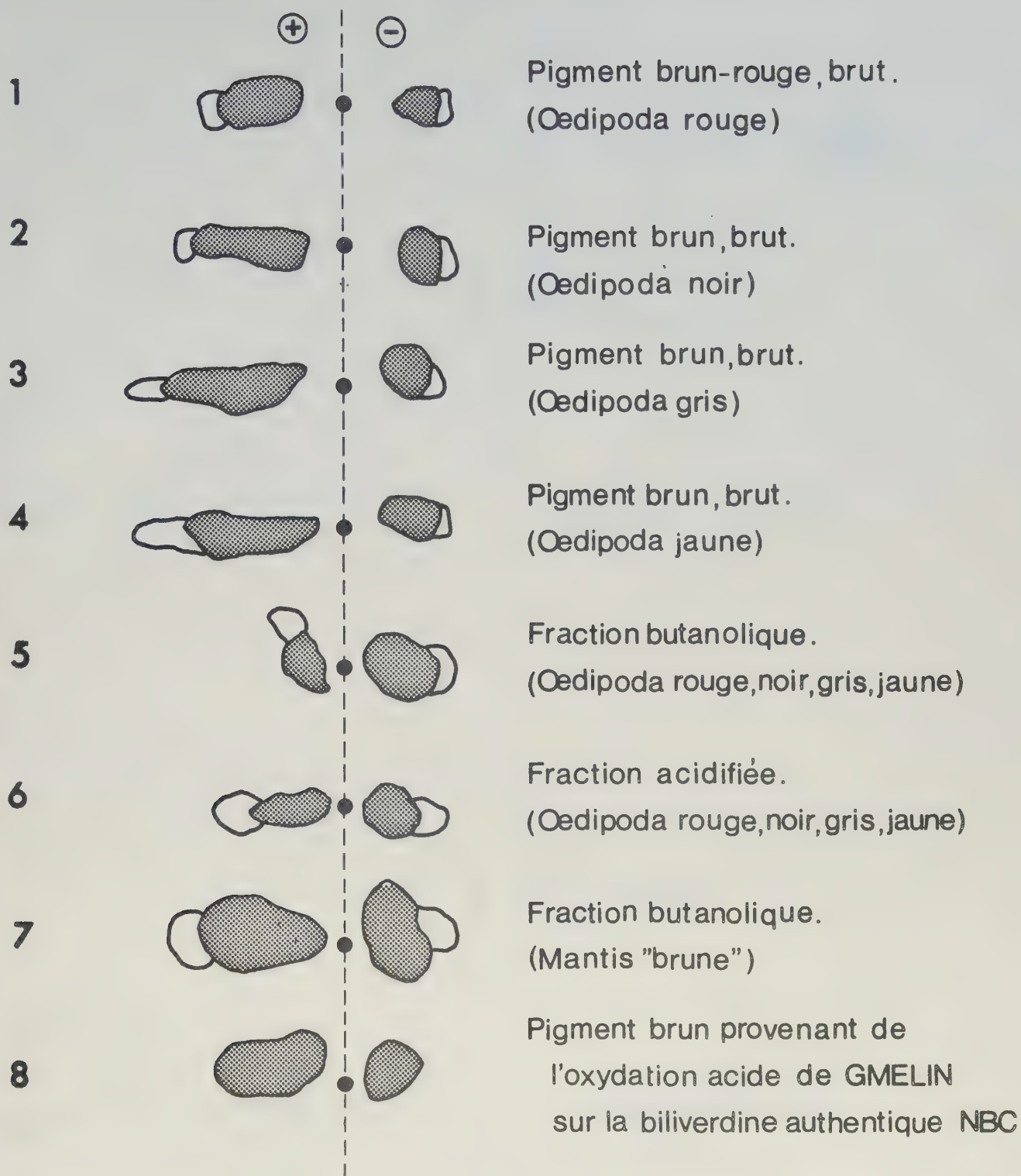
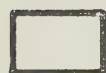


Figure 25 — ELECTROPHORESES

pH 6,4

temps 8 heures



Substance fluorescente



Substance brune

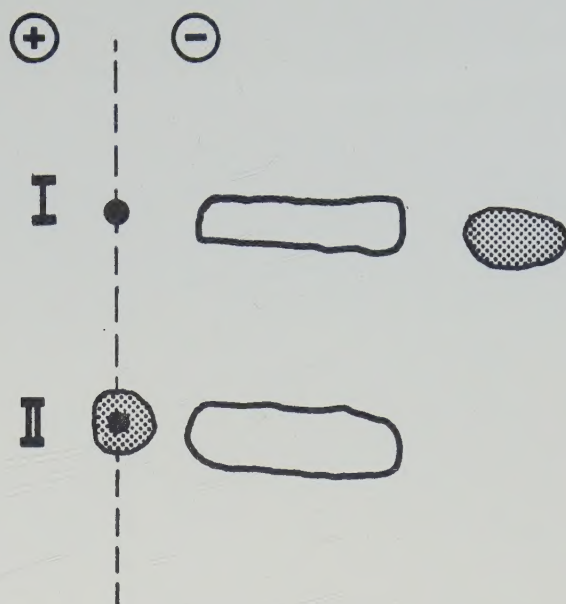


Figure . 26 — pH 9-9,2

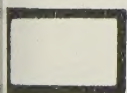
temps 8 heures



Figure . 27 — pH 5

temps 8 heures

Electrophorèses



Substance fluorescente



Substance brune

